Scales and Bar Graphs

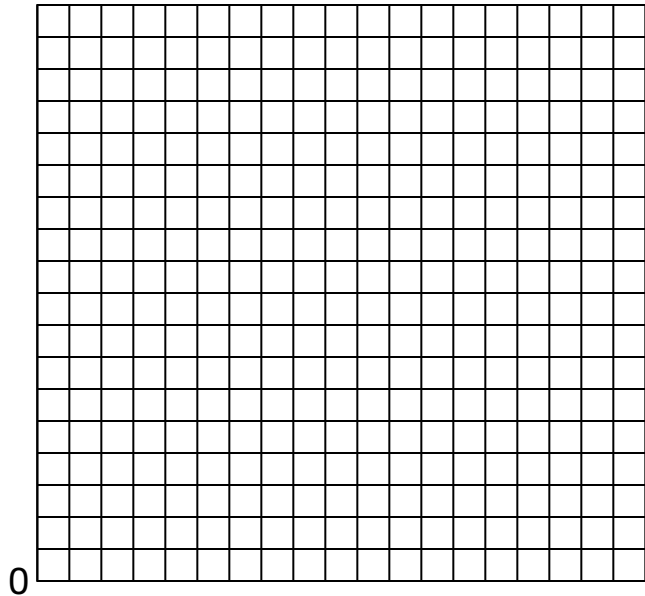| Major Languages of the World	Native Speakers	Speakers in U.S.
Arabic	190,000,000	360,000
French	73,000,000	1,700,000
German	98,000,000	1,550,000
Hindu (and related languages)	533,000,000	300,000
Japanese	125,000,000	430,000
Mandarin Chinese	844,000,000	1,250,000
Portuguese	172,000,000	430,000
Russian	169,000,000	240,000
Spanish	339,000,000	17,340,000

Use the data to answer the questions.

1. Make a bar graph showing the native speakers' data.

2. What is the range of the data in your graph?

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3. What is the total of the native French, German, and Spanish speakers?

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4. Suppose 200,000 U.S. citizens learned to speak Spanish this year. What would be the new total for the number of people who speak Spanish in the United States?

a. What strategy would you use to solve this problem?

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b. Solve the problem. _____